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Corporate Trainer's Profile

Corporate Trainers are having the experience of 4 to 12 years in development , working with TOP CMM level 5 companies (Project Leader /Project Manager) qualified from NIT/IIT/IIM and work exp in USA and UK.



Projects

CMM (Capability Maturity Model) level Project Standard:-

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5. Get the Opportunities to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

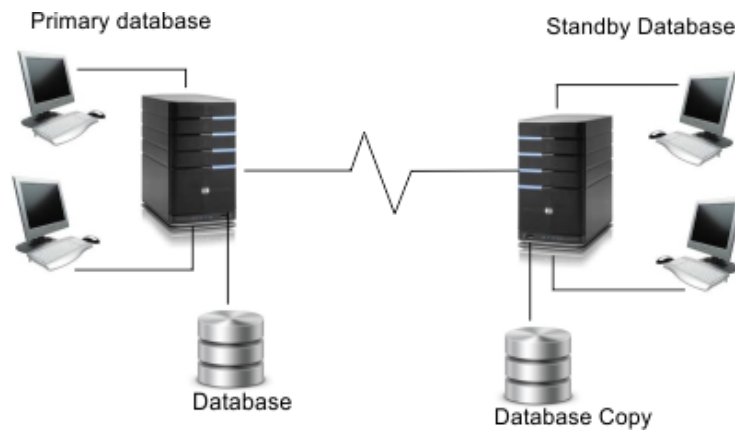


11g Data Guard Administration

Oracle Database 11g Release 2: Data Guard Administration

What is Data Guard?

Oracle Data Guard ensures high availability, data protection, and disaster recovery for enterprise data. Data Guard provides a comprehensive set of services that create, maintain, manage, and monitor one or more standby databases to enable production Oracle databases to survive disasters and data corruptions. Data Guard maintains these standby databases as transactionally consistent copies of the production database. Then, if the production database becomes unavailable because of a planned or an unplanned outage, Data Guard can switch any standby database to the production role, minimizing the downtime associated with the outage. Data Guard can be used with traditional backup, restoration, and cluster techniques to provide a high level of data protection and data availability.



What you will learn in this course?

In this course, students learn how to use Oracle Data Guard to help protect their Oracle database against planned and unplanned downtimes. They also learn how Data Guard standby databases can be used to support production functions such as reporting, querying, and testing, while in a standby role.

The course includes Data Guard architecture, the configuration of physical and logical standby databases, and role transitions. Oracle Data Guard 11g features, including Oracle Active Data Guard and snapshot standby databases are outlined. In addition, management of a Data Guard configuration and troubleshooting are discussed.

Learn to:

Offload business processing needs to another system
Offload backup needs to another system
Build highly available systems

Audience

Database Administrators Support Engineer Technical Consultant

Prerequisites

Oracle Enterprise Manager 10g Grid Control
Oracle Database 11g: Administration Workshop II DBA Release 2
Oracle Database 11g: Administration Workshop I DBA Release 2

Course Objectives

Use Data Guard standby databases to support production functions such as reporting, querying, testing, and performing
Create and manage physical and logical standby databases
Use Enterprise Manager Grid Control and the Data Guard command-line interface (DGMGRL) to maintain a Data Guard
Use Data Guard to achieve a highly available Oracle database

Course Topics**Introduction to Oracle Data Guard**

Causes of Data Loss
Oracle Data Guard Architecture
Types of Standby Databases (benefits of each type)
Using the Data Guard Broker
Differentiating Between Standby Databases and Data Guard Broker Configuration
Data Protection Modes
Performing Role Transitions

Creating a Physical Standby Database by Using SQL and RMAN Commands

Preparing the Primary Database
Creating the Physical Standby Database

Oracle Data Guard Broker:**Overview**

Oracle Data Guard Broker Features
Oracle Data Guard Broker Configurations
Data Guard Monitor Process
Data Guard Monitor Configuration Files
Benefits of Using the Data Guard Broker
Comparing Configuration Management With and Without the Broker
Using DGMGRL

Creating a Data Guard Broker Configuration

- Defining a Data Guard Configuration (overview)
- Setting up the Broker Configuration Files
- Setting the DG_BROKER_START Initialization Parameter to TRUE to start the Data Guard Broker
- Creating the Broker Configuration
- Adding the Standby Database to the Configuration

Creating a Physical Standby Database by Using Enterprise Manager Grid Control

- Using Enterprise Manager Grid Control to Create a Physical Standby Database
- Using the Add Standby Database Wizard
- Verifying a Configuration
- Editing Standby database properties
- Viewing the Data Guard Configuration Status

Creating a Logical Standby Database

- Monitoring the Data Guard Configuration by Using Enterprise Manager Grid Control
- Verifying the Configuration
- Viewing Log File Details
- Using Enterprise Manager Data Guard Metrics
- Using the DGMGRL SHOW CONFIGURATION Command to Monitor the Configuration
- Viewing Standby Redo Log Information
- Monitoring Redo Apply

Creating and Managing a Snapshot Standby Database

- Snapshot Standby Database: Architecture
- Converting a Physical Standby Database to a Snapshot Standby Database
- Activating a Snapshot Standby Database: Issues and Cautions
- Viewing Snapshot Standby Database Information
- Converting a Snapshot Standby Database to a Physical Standby Database

Using Oracle Active Data Guard

- Using Real-Time Query
- Enabling and Disabling Real-Time Query
- Enabling Block Change Tracking on a Physical Standby Database
- Creating Fast Incremental Backups
- Monitoring Block Change Tracking

Configuring Data Protection Modes

- Preparing to Create a Logical Standby Database
- Checking for Unsupported Objects , Data Types, and Tables
- Ensuring Unique Row Identifiers
- Creating the Logical Standby Using SQL Commands and Grid Control
- Securing your Logical Standby Database

Performing Role Transitions

Contrast switchover vs. failover
Preparing for a Switchover
Performing a Switchover using DGMGRL and Enterprise Manager
Types of Failovers
Re-enabling Disabled Databases

Using Flashback Database in a Data Guard Configuration

Overview of Flashback Database
Configuring Flashback Database
Using Flashback Database Instead of Apply Delay
Using Flashback Database and Real Time Apply
Flashback Through Standby Database Role Transitions
Using Flashback Database After Failover

Enabling Fast-Start Failover

Installing the Observer Software
Configuring Fast-Start Failover
Configuring Automatic Reinstatement of the Primary Database
Initiating Fast-Start Failover from an Application
Disabling Fast-Start Failover
Starting and Stopping the Observer
Moving the Observer to a new Host

Managing Client Connectivity

Understanding Client Connectivity in a Data Guard Configuration
Preventing Clients from Connecting to the Wrong Database
Creating Services for the Data Guard Configuration Databases
Automating Client Failover in a Data Guard Configuration
Automating Failover for OCI Clients
Automating Failover for OLE DB Clients
Configuring JDBC Clients for Failover

Performing Backup and Recovery Considerations in an Oracle Data Guard Configuration

Backup and Recovery of a Logical Standby Database
Using the RMAN Recovery Catalog in a Data Guard Configuration
Creating the Recovery Catalog
Registering a Database in the Recovery Catalog
Configuring Daily Incremental Backups
Using a Backup to Recover a Data File on the Primary Database
Recovering a Data File on the Standby Database

Patching and Upgrading Databases in a Data Guard Configuration

- Upgrading an Oracle Data Guard Broker Configuration
- Using SQL Apply to Upgrade the Oracle Database
- Performing a Rolling Upgrade by Using SQL Apply
- Performing a Rolling Upgrade by Using an Existing Logical Standby Database
- Performing a Rolling Upgrade by Creating a New Logical Standby Database
- Performing a Rolling Upgrade by Using a Physical Standby Database

Monitoring a Data Guard Configuration

- Monitoring the Data Guard Configuration by Using Enterprise Manager Grid Control
- Verifying the Configuration
- Viewing Log File Details
- Using Enterprise Manager Data Guard Metrics
- Using the DGMGRL SHOW CONFIGURATION Command to Monitor the Configuration
- Viewing Standby Redo Log Information
- Monitoring Redo Apply

Optimizing a Data Guard Configuration

- Using Enterprise Manager Grid Control to monitor configuration performance
- Setting the ReopenSecs and NetTimeout database properties
- Compressing Redo Data
- Delaying the Application of Redo Data
- Optimizing SQL Apply
- Adjusting the Number of APPLIER and PREPARER processes

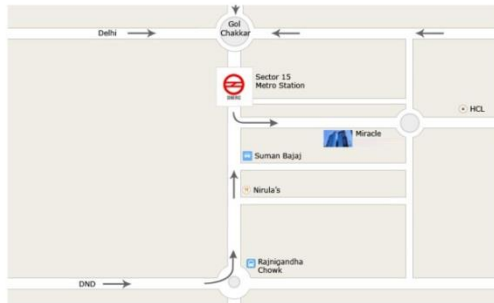
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- ✓ 1. Task-Oriented, Competency-Based Course Design
- ✓ 2. A Truly Hands On Learning Experience – At Least 50% Lab Time
- ✓ 3. Courseware Ownership & Control
- ✓ 4. Instructors With Extensive Experience of the corporate , having the Certifications.
- ✓ 5. On line Training /On site training is available
- ✓ 6. Small Class Size ,proper doubt classes by the assistance
- ✓ 7. A Cost-Effective, Total Solution
- ✓ 8. Training will get the confirmation letter and Industrial Live Project (For pursuing students to submit the letter in college.)
- ✓ 9. FREE Assessment test for job eligibility.
- ✓ 10.Placement tie with the companies.

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